PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LBP1005PC00	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/y	rear) (Earliest) Priority Date (day/month/year)
PCT/EP2005/002538	10/03/2005	10/03/2004
Applicant . LONZA LTD.		
according to Article 18. A copy is being to	ansmitted to the International Bureau.	
language in which it was filed, un The international this Authority (Ru	less otherwise indicated under this iter search was carried out on the basis of the 23.1(b)).	n the basis of the international application in the n. a translation of the international application furnished to isclosed in the international application, see Box No. I.
	and unsearchable (See Box II).	isologed in the international approach, eco box No. 1.
3. Unity of invention is lac	sking (see Box III).	
	ubmitted by the applicant. shed by this Authority to read as follow	s:
the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by thi om the date of mailing of this internation	s Authority as it appears in Box No. IV. The applicant and search report, submit comments to this Authority.
X as suggested by as selected by the	published with the abstract is Figure N the applicant. his Authority, because the applicant fall his Authority, because this figure better be published with the abstract.	ed to suggest a figure.

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

PCT/EP2005/002538

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X in computer readable form
	c.	time of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form X furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	cional comments:
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International Application No PCT/EP2005/00253

PCT/EP2005/002538 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO7K16/00 C12N C12N15/16 C12N5/10 C12N15/62 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE C. DOCUMENTS CONSIDERED TO BE RELEVANT Category. Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X SWENNEN DOMINIQUE ET AL: "Secretion of 30,31, active anti-Ras single-chain Fv antibody 40,42, by the yeasts Yarrowia lipolytica and 50-53 Kluyveromyces lactis" MICROBIOLOGY (READING), vol. 148, no. 1, January 2002 (2002-01), pages 41-50, XP002350347 ISSN: 1350-0872 abstract; figure 1 Further documents are listed in the continuation of box C. Χ Patent family members are listed in annex. Special categories of cited documents: *T* tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the A document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international *X* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 21 October 2005 07/11/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Renggli-Zulliger, N

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International Application No PCT/EP2005/002538

·	citation of document, with indication, where appropriate of the relevant	Relevant to claim No.
alegory *	Citation of document, with indication, where appropriate, of the relevant passages	nelevant to claim No.
Y	WONG MICHAEL J ET AL: "Processing of human factor I in COS-1 cells co-transfected with factor I and paired basic amino acid cleaving enzyme (PACE) cDNA" MOLECULAR IMMUNOLOGY, vol. 32, no. 5, 1995, pages 379-387, XP002350310 ISSN: 0161-5890 the whole document	1-47, 49-57
Υ	EP 1 099 758 A (GENENTECH INC) 16 May 2001 (2001-05-16) abstract	1-47, 49-57
Y	SANTOS A D ET AL: "GENERATION AND CHARACTERIZATION OF A SINGLE GENE-ENCODED SINGLE-CHAIN-TETRAVALENT ANTITUMOR ANTIBODY" CLINICAL CANCER RESEARCH, THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, US, vol. 5, no. 10, October 1999 (1999-10), pages 3118S-3123S, XP000929841 ISSN: 1078-0432 cited in the application abstract	1-47, 49-57
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Y	LEE JEEWON ET AL: "Novel secretion system of recombinant Saccharomyces cerevisiae using an N-terminus residue of human IL-1beta as secretion enhancer" BIOTECHNOLOGY PROGRESS, vol. 15, no. 5, 1999, pages 884-890, XP002211009 ISSN: 8756-7938 abstract	1-47, 49-57

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	etion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	WHITTLE N ET AL: "EXPRESSION IN COS CELLS OF A MOUSE - HUMAN CHIMAERIC B72.3 ANTIBODY" PROTEIN ENGINEERING, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 1, no. 6, 1 December 1987 (1987-12-01), pages 499-505, XP000005250 ISSN: 0269-2139 cited in the application abstract; figures 2,3	1-47, 49-57
A	HATSUZAWA K ET AL: "PURIFICATION AND CHARACTERIZATION OF FURIN A KEX2-LIKE PROCESSING ENDOPROTEASE PRODUCED IN CHINESE HAMSTER OVARY CELLS" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 267, no. 23, 1992, pages 16094-16099, XP002350311 ISSN: 0021-9258 abstract	1-47, 49-57
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Information on patent family members

International Application No
PCT/EP2005/002538

Patent document cled in search report date Publication date Patent family momber(s) Publication date EP 1099758 A 16-05-2001 NONE
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Form PCT/ISA/210 (patent family annex) (January 2004)